Ayush Goyal

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EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY
B.Tech, Information Technology
2019 - 2023 | New Delhi, India
GPA: 9.25 (till 3rd semester)

HHF SCHOOL
2019 | New Delhi, India
Class 12th : 92%

DELHI PUBLIC SCHOOL MATHURA ROAD
New Delhi, India
Class 10th CGPA : 10

LINKS

Portfolio:// **ayushgoyal.dev**
GitHub:// **ayush6624**
LinkedIn:// **ayush-goyal6624**
CodeChef:// **ayush6624**
Codeforces:// **ayush6624**

COURSEWORK

UNDERGRADUATE
Data Structures And Algorithms
Object Oriented Programming
Database Management System*
Operating System*
(Ongoing Courses)*

SKILLS

PROGRAMMING
Languages:
C • C++ • Python • JavaScript

Web Development:
HTML • CSS • React • NextJS
• NodeJS • MongoDB • Docker

Machine Learning:
Deep Learning • OpenCV
• Tensorflow • PyTorch

HOBBIES

Blog
Traveling

EXPERIENCE

TRIPMOKSHA PVT LTD | Software Developer Intern
Jan 2020 – Mar 2020 | New Delhi, Inidia
- **Led** and shipped the website's **backend** from scratch.
- Used **Python**, **Flask**, **MongoDB** and **Firebase** to develop **REST APIs**.
- Integrated a payment pipeline using **Stripe** and **Mailgun**.
- Built reusable **dashboards** using **Javascript**.

PROJECTS

MONOPOLY BANKER | Code
- Keeps track of **finances** in a game of **Monopoly**, replacing currency notes.
- **Color-coded toast notifications**, supports **multiple players**, quickly save and resume a game.
- Features an installable **PWA** across different devices and works across different viewports.
- Built using **React**, **Socket.io** and **NodeJS**.

VIRTUAL DANCE PARTY | Code
- Used **Javascript** to develop a fun app to host **virtual dance parties** where participants can **dance together** as **animated stickmen**.
- Used **Tensorflow** and **PoseNet** Model to estimate the pose using the camera of the device.
- **Rendered** an animated **2D stickman** using **Two.js** and optimized it to achieve a framerate of **~25 FPS**.
- Used **Spotify SDK** to stream and control **music** in the dance room.

DRONE DELIVERY | Code
- Developed a system to devise a **cost-effective route** for a truck and **multiple drones** to transport packages to a **network** of delivery nodes.
- Used **K-Means** to **cluster** delivery nodes and used **TSP** with **heuristics** to identify the truck routes.
- Implemented **Integer Linear Programming** formulation of **multiple salesman problem** to generate the drone routes. Used **Javascript** and **Google Maps API** to illustrate them.
- **Reduced** computation time by **95%** and **increased** the route efficiency by **34%**.

POSITIONS

- **Web Core Team Member** at **Google Developer Student Club** of DTU.
- **Co-Head** Web Technology at **IOSD** DTU.
- Awarded the **Best Hack** at **MLH New Year Hackathon 2021**.
- Conducted various **sessions** in the field of Web Development where **200+** students participated.
- Successfully organized and judged **CodeFeed'21**, an app-development competition where **50+ teams** participated.